[54]	ADHESIVE POLYETHYLENE OXIDE HYDROGEL SHEET AND ITS PRODUCTION	
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[58]	Field of Sea	arch
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57] ABSTRACT

A solid sheet of adhesive hydrophilic gel which is a homogeneous aqueous mixture, substantially free of unbound water, monomers and crosslinking agents, consisting essentially of an amount dispersed uniformly in water of from about 4 to 35 wt % of a crosslinked polyethylene oxide, effective to form with the water a tacky surfaced viscoelastic solid which sheet of hydrophilic gel is produced by subjecting a liquid film of an aqueous solution having a viscosity of about $2-2,000\times10^3$ cps of a linear water soluble polyethylene oxide having a weight average molecular weight from about $0.02-6\times10^6$ Daltons to an amount of high energy radiation effective to convert the liquid film to a sheet of the viscoelastic solid having an adhesive face.

14 Claims, No Drawings